ANNALS OF MATHEMATICS
Vol. 118, Nos. 1, 2, 3
1983

INDEX

ATIYAH, M. F., DONNELLY, H., SINGER, I. M. Eta invariants, signature defects of cusps, and values of L-functions 131–177
BEALS, M. Self-spreading and strength of singularities for solutions to semilinear wave equations 187–214
BUONCRISTIANO, S. and HACON, D. The geometry of Chern numbers 1–7
DONNELLY, H. and FEFFERMAN, C. L^2-cohomology and index theorem for the Bergman metric 593–618
DONNELLY, H. *See* Atiyah et al.
FEFFERMAN, C. *See* Donnelly and Fefferman.
FRIEDMAN, R. Global smoothings of varieties with normal crossings . . . 75–114
FRÖHLICH, J., OSTERWALDER, K., SEILER, E. On virtual representations of symmetric spaces and their analytic continuation 461–489
FULTON, W. and LAZARSFELD, R. The numerical positivity of ample vector bundles 35–60
GRIGIS, A. and ROTHSCHILD, L. P. A criterion for analytic hypoellipticity of a class of differential operators with polynomial coefficients 443–460
HAAGERUP, U. Solution of the similarity problem for cyclic representations of C^*-algebras 215–240
HACON, D. *See* Buoncristiano and Hacon.
HSIANG, W.-Y. Minimal cones and the spherical Bernstein problem, I . . . 61–73
JOHNSON, D. The structure of the Torelli group I: A finite set of generators for $\mathcal{I}$ 423–442
KATO, K. and SAITO, S. Unramified class field theory of arithmetical surfaces 241–275
LAZARSFELD, R. *See* Fulton and Lazarsfeld.
LIEB, E. Sharp constants in the Hardy-Littlewood-Sobolev and related inequalities 349–374
LUBOTZKY, A. Group presentation, p-adic analytic groups and lattices in $SL_2(C)$ 115–130
MERKURJEV, A. S. On the torsion in K_2 of local fields 375–381
OSTERWALDER, K. *See* Fröhlich et al.

PALIS, J. and TAKENS, F. Stability of parametrized families of gradient vector fields 383–421
PARRY, W. and POLLICOTT, M. An analogue of the prime number theorem for closed orbits of Axiom A flows 573–591
POLLICOTT, M. *See* Parry and Pollicott.
RATNER, M. Horocycle flows, joinings and rigidity of products 277–313
ROCHBERG, R. and WEISS, G. Derivatives of analytic families of Banach spaces 315–347
ROTHSCHILD, L. P. *See* Grigis and Rothschild.
SAITO, S. *See* Kato and Saito.
SEILER, E. *See* Fröhlich et al.
SIMON, L. Asymptotics for a class of non-linear evolution equations, with applications to geometric problems 525–571
SINGER, I. M. *See* Atiyah et al.
TAKENS, F. *See* Palis and Takens.
WEISS, G. *See* Rochberg and Weiss.
WHITE, B. Existence of least-area mappings of N-dimensional domains 179–185
WOJTASZCZYK, P. Hardy spaces on the complex ball are isomorphic to Hardy spaces on the disc, $1 \leq p < \infty$ 21–34
WOLPERT, S. On the homology of the moduli space of stable curves . . 491–523
ZIMMER, R. J. Ergodic actions of semisimple groups and product relations 9–19